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## 124-02

### WATERBORNE, LOW V.O.C., CONDUCTIVE INK & COATING

**DESCRIPTION:** 124-02 is a waterborne, low V.O.C., electrically conductive ink and coating suitable for application by rotogravure or flexographic. This product features adhesion to Kapton, Mylar, glass, and a variety of other surfaces. Unlike conventional conductive materials, this product is very resistant to flexing and creasing. Some applications for 124-02 include, but are not limited to, medical electrodes, EMI/RFI shielding, polymer thick film circuitry and membrane switches. 124-02 is a higher viscosity version of 119-32.

**TYPICAL CURED PROPERTIES:**

|   |             |
|---|-------------|
| Consistency                                   | Thin Liquid |
| Crease Resistance                             | Excellent   |
| Volume Resistivity ( $\Omega$ -cm)            | 0.0001      |
| Sheet Resistivity, max. ( $\Omega$ /sq./mil.) | 0.05        |
| Solderable                                    | No          |
| Hydrolytic Stability                          | Excellent   |
| Useful Temperature Range ( $^{\circ}$ C)      | -55 to +140 |
| Thermal Stability ( $^{\circ}$ C)             | Good to 175 |
| Coverage (sq. ft./gal. at 1.0 mils dry)       | 300.79      |
| V.O.C.'s (grams/liter)                        | 60.8        |

**SUGGESTED HANDLING & CURING:** Before using mix well to re-suspend filler. Further thinning may be accomplished by adding small amounts of distilled water. Best properties are obtained on a variety of substrates by curing for 10 minutes at 125 $^{\circ}$ C. Good properties are also obtained on a variety of substrates by curing at temperatures ranging from 50 $^{\circ}$ C to 150 $^{\circ}$ C. End user is advised to experimentally determine temperature and time best suited for individual applications.

**STORAGE:** Shelf Life: 6 months at 21 $^{\circ}$ C. **DO NOT ALLOW TO FREEZE.**

**SAFETY & HANDLING:** Wash with soap and water to remove from skin.